
International Standard



5670

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Agricultural trailers — Single-acting telescopic tipping cylinders — 25 MPa (250 bar) series — Types 1, 2 and 3 — Interchangeability dimensions

Remorques agricoles — Vérins de bennage télescopiques à simple effet — Série 25 MPa (250 bar) — Types 1, 2 et 3 — Dimensions d'interchangeabilité

First edition — 1984-06-15

UDC 621.226 : 631.372

Ref. No. ISO 5670-1984 (E)

Descriptors : agricultural machinery, trailers, agricultural trailers, agricultural tippers, hydraulic equipment, hydraulic cylinders, classifications, interchangeability, dimensions.



Documents

Document Sharing Hub
Price based on 5 pages

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been authorized has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 5670 was developed by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, and was circulated to the member bodies in November 1982.

It has been approved by the member bodies of the following countries :

Australia	France	South Africa, Rep. of
Belgium	India	Spain
Bulgaria	Iran	Sweden
China	Italy	Switzerland
Czechoslovakia	Korea, Dem. P. Rep. of	Turkey
Denmark	Poland	United Kingdom
Egypt, Arab Rep. of	Portugal	USSR
Finland	Romania	

The member bodies of the following countries expressed disapproval of the document on technical grounds :

Canada
USA

Agricultural trailers — Single-acting telescopic tipping cylinders — 25 MPa (250 bar) series — Types 1, 2 and 3 — Interchangeability dimensions

0 Introduction

The aim of this International Standard is to facilitate future projects by simplifying the design, manufacture and stocking of cylinders, reducing replacement costs and increasing the possibilities of interchangeability.

1 Scope

This International Standard lays down dimensional characteristics and specifies the test pressure of the types of hydraulic tipping cylinders currently used on agricultural tippers, in order to provide a reasonably limited range from which manufacturers may choose a suitable cylinder to meet current and projected requirements.

2 Field of application

This International Standard covers single-acting telescopic hydraulic cylinders for use at a pressure of 25 MPa (250 bar), intended for use exclusively on agricultural trailer tippers.

3 References

ISO 228/1, *Pipe threads where pressure-tight joints are not made on the threads — Part 1 : Designation, dimensions and tolerances*.

ISO 965/2, *ISO general purpose metric screw threads — Tolerances — Part 2 : Limits of sizes for general purpose bolt and nut threads — Medium quality*.

ISO 3320, *Fluid power systems and components — Cylinder bores and piston rod diameters — Metric series*.

ISO 6149, *Fluid power systems and components — Metric ports — Dimensions and design*.

4 Definitions

4.1 single-acting cylinder : A cylinder which provides a positive linear extension movement with a powered stroke.

4.2 single-acting telescopic cylinder : A single-acting cylinder which provides positive linear movement obtained in successive stages by a powered stroke in extension.

5 Classification

The cylinders are divided into three types : type 1, type 2, type 3; depending on their construction, method of attachment to the trailer and geometric configuration.

Type 1 cylinders are of two stage construction only; types 2 and 3 may be of two or three stage construction.

6 Dimensional requirements

6.1 Type 1 cylinders

Type 1 cylinders shall in general be constructed in accordance with figure 1 and with the dimensions and tolerances laid down in table 1.

6.2 Type 2 cylinders

Type 2 cylinders shall in general be constructed in accordance with figure 2 and with the dimensions and tolerances laid down in table 2.

6.3 Type 3 cylinders

Type 3 cylinders shall in general be constructed in accordance with figure 3 and with the dimensions and tolerances laid down in table 3.